

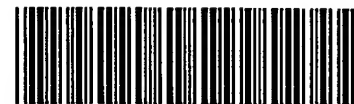
*Handwritten:* Jordan

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/500/84/A  
Source: PCF  
Date Processed by STIC: 3-4-05

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 03/04/2005

PATENT APPLICATION: US/10/500,841A

TIME: 12:13:40

Input Set : A:\034100-003.txt

Output Set: N:\CRF4\03042005\J500841A.raw

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4 <110> APPLICANT: Taniguchi, Naoyuki
5     Miyoshi, Eiji
6     Saito, Takeshi
8 <120> TITLE OF INVENTION: Glycosyltransferase GnT-V Having Neovascularization Action
10 <130> FILE REFERENCE: 034100-003
12 <140> CURRENT APPLICATION NUMBER: US 10/500,841A
13 <141> CURRENT FILING DATE: 2004-07-07
15 <150> PRIOR APPLICATION NUMBER: PCT/JP02/13879
16 <151> PRIOR FILING DATE: 2002-12-27
18 <150> PRIOR APPLICATION NUMBER: JP 2002-2056
19 <151> PRIOR FILING DATE: 2002-01-09
21 <160> NUMBER OF SEQ ID NOS: 13
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 5
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 Thr Pro Trp Gly Lys
32 1      5
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 6
36 <212> TYPE: PRT
37 <213> ORGANISM: Homo sapiens
39 <400> SEQUENCE: 2
40 Asn Ile Pro Ser Tyr Val
41 1      5
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 17
46 <212> TYPE: PRT
47 <213> ORGANISM: Homo sapiens
49 <400> SEQUENCE: 3
50 Val Leu Asp Ser Phe Gly Thr Glu Pro Glu Phe Asn His Ala Asn Tyr
51 1      5              10              15
52 Ala
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 6
58 <212> TYPE: PRT
59 <213> ORGANISM: Homo sapiens
61 <400> SEQUENCE: 4
62 Asp Leu Gln Phe Leu Leu
63 1      5
66 <210> SEQ ID NO: 5

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67 <211> LENGTH: 7
68 <212> TYPE: PRT
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 5
72 Asn Thr Asp Phe Phe Ile Gly
73 1 5
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 2095
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
81 <220> FEATURE:
82 <221> NAME/KEY: CDS
83 <222> LOCATION: (156)...(2095)
85 <400> SEQUENCE: 6
86 ccggctgaag catcagaatg gaagtgagga aaggcaacca gctgacacag gagccagagt 60
87 gagaccagca gactctcaca ctcaacctac accatgaatt tgtgtctatc ttctacgcgt 120
88 taagagccaa ggacaggtga agttgccaga gagca atg gct ctc ttc act ccg 173
89 Met Ala Leu Phe Thr Pro
90 1 5
92 tgg aag ttg tcc tct cag aag ctg ggc ttt ttc ctg gtg act ttt ggc 221
93 Trp Lys Leu Ser Ser Gln Lys Leu Gly Phe Phe Leu Val Thr Phe Gly
94 10 15 20
96 ttc att tgg ggt atg atg ctt ctg cac ttt acc atc cag cag cga act 269
97 Phe Ile Trp Gly Met Met Leu Leu His Phe Thr Ile Gln Gln Arg Thr
98 25 30 35
100 cag cct gaa agc agc tcc atg ctg cgc gag cag atc ctg gac ctc agc 317
101 Gln Pro Glu Ser Ser Ser Met Leu Arg Glu Gln Ile Leu Asp Leu Ser
102 40 45 50
104 aaa agg tac atc aag gca ctg gca gaa gaa aac agg aat gtg gtg gat 365
105 Lys Arg Tyr Ile Lys Ala Leu Ala Glu Glu Asn Arg Asn Val Val Asp
106 55 60 65 70
108 ggg cca tac gct gga gtc atg aca gct tat gat ctg aag aaa acc ctt 413
109 Gly Pro Tyr Ala Gly Val Met Thr Ala Tyr Asp Leu Lys Lys Thr Leu
110 75 80 85
112 gct gtg tta tta gat aac att ttg cag cgc att ggc aag ttg gag tcg 461
113 Ala Val Leu Leu Asp Asn Ile Leu Gln Arg Ile Gly Lys Leu Glu Ser
114 90 95 100
116 aag gtg gac aat ctt gtt gtc aat ggc acc gga aca aac tca acc aac 509
117 Lys Val Asp Asn Leu Val Val Asn Gly Thr Gly Thr Asn Ser Thr Asn
118 105 110 115
120 tcc act aca gct gtt ccc agc ttg gtt gca ctt gag aaa att aat gtg 557
121 Ser Thr Thr Ala Val Pro Ser Leu Val Ala Leu Glu Lys Ile Asn Val
122 120 125 130
124 gca gat atc att aac gga gct caa gaa aaa tgt gta ttg cct cct atg 605
125 Ala Asp Ile Ile Asn Gly Ala Gln Glu Lys Cys Val Leu Pro Pro Met
126 135 140 145 150
128 gac ggc tac cct cac tgt gag gga aag atc aag tgg atg aaa gac atg 653
129 Asp Gly Tyr Pro His Cys Glu Gly Lys Ile Lys Trp Met Lys Asp Met
130 155 160 165

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DATE: 03/04/2005

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Input Set : A:\034100-003.txt

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132	tgg	cgt	tca	gat	ccc	tgc	tac	gca	gac	tat	gga	gtg	gat	gga	tcc	acc	701
133	Trp	Arg	Ser	Asp	Pro	Cys	Tyr	Ala	Asp	Tyr	Gly	Val	Asp	Gly	Ser	Thr	
134				170					175					180			
136	tgc	tct	ttt	ttt	att	tac	ctc	agt	gag	gtt	gaa	aat	tgg	tgt	cct	cat	749
137	Cys	Ser	Phe	Phe	Ile	Tyr	Leu	Ser	Glu	Val	Glu	Asn	Trp	Cys	Pro	His	
138			185					190					195				
140	tta	cct	tgg	aga	gca	aaa	aat	ccc	tac	gaa	gaa	gct	gat	cat	aat	tca	797
141	Leu	Pro	Trp	Arg	Ala	Lys	Asn	Pro	Tyr	Glu	Glu	Ala	Asp	His	Asn	Ser	
142		200					205					210					
144	ttg	gcg	gaa	att	cgt	aca	gat	ttt	aat	att	ctc	tac	agt	atg	atg	aaa	845
145	Leu	Ala	Glu	Ile	Arg	Thr	Asp	Phe	Asn	Ile	Leu	Tyr	Ser	Met	Met	Lys	
146	215				220					225					230		
148	aag	cat	gaa	gaa	ttc	cgg	tgg	atg	aga	cta	cgg	atc	cgg	cga	atg	gct	893
149	Lys	His	Glu	Glu	Phe	Arg	Trp	Met	Arg	Leu	Arg	Ile	Arg	Arg	Met	Ala	
150				235					240					245			
152	gac	gca	tgg	atc	caa	gca	atc	aag	tcc	ctg	gca	gaa	aag	cag	aac	ctt	941
153	Asp	Ala	Trp	Ile	Gln	Ala	Ile	Lys	Ser	Leu	Ala	Glu	Lys	Gln	Asn	Leu	
154			250					255					260				
156	gaa	aag	aga	aag	cgg	aag	aaa	gtc	ctc	gtt	cac	ctg	gga	ctc	ctg	acc	989
157	Glu	Lys	Arg	Lys	Arg	Lys	Lys	Val	Leu	Val	His	Leu	Gly	Leu	Leu	Thr	
158		265					270					275					
160	aag	gaa	tct	gga	ttt	aag	att	gca	gag	aca	gct	ttc	agt	ggg	ggc	cct	1037
161	Lys	Glu	Ser	Gly	Phe	Lys	Ile	Ala	Glu	Thr	Ala	Phe	Ser	Gly	Gly	Pro	
162		280				285					290						
164	ctt	ggg	gaa	tta	gtt	caa	tgg	agt	gat	tta	att	aca	tct	ctg	tac	tta	1085
165	Leu	Gly	Glu	Leu	Val	Gln	Trp	Ser	Asp	Leu	Ile	Thr	Ser	Leu	Tyr	Leu	
166	295				300				305					310			
168	ctg	ggc	cat	gac	att	agg	att	tca	gct	tca	ctg	gct	gag	ctc	aag	gaa	1133
169	Leu	Gly	His	Asp	Ile	Arg	Ile	Ser	Ala	Ser	Leu	Ala	Glu	Leu	Lys	Glu	
170				315					320					325			
172	atc	atg	aag	aag	gtt	gta	gga	aac	cga	tct	ggc	tgc	cca	act	gta	gga	1181
173	Ile	Met	Lys	Lys	Val	Val	Gly	Asn	Arg	Ser	Gly	Cys	Pro	Thr	Val	Gly	
174			330					335					340				
176	gac	aga	att	gtt	gag	ctc	att	tac	att	gat	att	gta	gga	ctt	gct	caa	1229
177	Asp	Arg	Ile	Val	Glu	Leu	Ile	Tyr	Ile	Asp	Ile	Val	Gly	Leu	Ala	Gln	
178		345					350					355					
180	ttc	aag	aaa	act	ctt	gga	cca	tcc	tgg	gtt	cat	tac	cag	tgc	atg	ctc	1277
181	Phe	Lys	Lys	Thr	Leu	Gly	Pro	Ser	Trp	Val	His	Tyr	Gln	Cys	Met	Leu	
182		360				365					370						
184	cga	gtc	ctt	gat	tca	ttt	ggg	act	gaa	ccc	gaa	ttt	aat	cat	gca	aat	1325
185	Arg	Val	Leu	Asp	Ser	Phe	Gly	Thr	Glu	Pro	Glu	Phe	Asn	His	Ala	Asn	
186	375				380					385				390			
188	tat	gcc	caa	tcg	aaa	ggc	cac	aag	acc	cct	tgg	gga	aaa	tgg	aat	ctg	1373
189	Tyr	Ala	Gln	Ser	Lys	Gly	His	Lys	Thr	Pro	Trp	Gly	Lys	Trp	Asn	Leu	
190				395				400					405				
192	aac	cct	cag	cag	ttt	tat	acc	atg	ttc	cct	cat	acc	cca	gac	aac	agc	1421
193	Asn	Pro	Gln	Gln	Phe	Tyr	Thr	Met	Phe	Pro	His	Thr	Pro	Asp	Asn	Ser	
194			410					415					420				
196	ttt	ctg	ggg	ttt	gtg	gtt	gag	cag	cac	ctg	aac	tcc	agt	gat	atc	cac	1469

## RAW SEQUENCE LISTING

DATE: 03/04/2005

PATENT APPLICATION: US/10/500,841A

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Input Set : A:\034100-003.txt

Output Set: N:\CRF4\03042005\J500841A.raw

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197 Phe Leu Gly Phe Val Val Glu Gln His Leu Asn Ser Ser Asp Ile His
198      425      430      435
200 cac att aat gaa atc aaa agg cag aac cag tcc ctt gtg tat ggc aaa 1517
201 His Ile Asn Glu Ile Lys Arg Gln Asn Gln Ser Leu Val Tyr Gly Lys
202      440      445      450
204 gtg gat agc ttc tgg aag aat aag aag atc tac ttg gac att att cac 1565
205 Val Asp Ser Phe Trp Lys Asn Lys Lys Ile Tyr Leu Asp Ile Ile His
206 455      460      465      470
208 aca tac atg gaa gtg cat gca act gtt tat ggc tcc agc aca aag aat 1613
209 Thr Tyr Met Glu Val His Ala Thr Val Tyr Gly Ser Ser Thr Lys Asn
210      475      480      485
212 att ccc agt tac gtg aaa aac cat ggt atc ctc agt gga cgg gac ctg 1661
213 Ile Pro Ser Tyr Val Lys Asn His Gly Ile Leu Ser Gly Arg Asp Leu
214      490      495      500
216 cag ttc ctt ctt cga gaa acc aag ttg ttt gtt gga ctt ggg ttc cct 1709
217 Gln Phe Leu Leu Arg Glu Thr Lys Leu Phe Val Gly Leu Gly Phe Pro
218      505      510      515
220 tac gag ggc cca gct ccc ctg gaa gct atc gca aat gga tgt gct ttt 1757
221 Tyr Glu Gly Pro Ala Pro Leu Glu Ala Ile Ala Asn Gly Cys Ala Phe
222      520      525      530
224 ctg aat ccc aag ttc aac cca ccc aaa agc agc aaa aac aca gac ttt 1805
225 Leu Asn Pro Lys Phe Asn Pro Pro Lys Ser Ser Lys Asn Thr Asp Phe
226 535      540      545      550
228 ttc att ggc aag cca act ctg aga gag ctg aca tcc cag cat cct tac 1853
229 Phe Ile Gly Lys Pro Thr Leu Arg Glu Leu Thr Ser Gln His Pro Tyr
230      555      560      565
232 gct gaa gtt ttc atc ggg cgg cca cat gtg tgg act gtt gac ctc aac 1901
233 Ala Glu Val Phe Ile Gly Arg Pro His Val Trp Thr Val Asp Leu Asn
234      570      575      580
236 aat cag gag gaa gta gag gat gca gtg aaa gca att tta aat cag aag 1949
237 Asn Gln Glu Glu Val Glu Asp Ala Val Lys Ala Ile Leu Asn Gln Lys
238      585      590      595
240 att gag cca tac atg cca tat gaa ttt acg tgc gag ggg atg cta cag 1997
241 Ile Glu Pro Tyr Met Pro Tyr Glu Phe Thr Cys Glu Gly Met Leu Gln
242      600      605      610
244 aga atc aat gct ttc att gaa aaa cag gac ttc tgc cat ggg caa gtg 2045
245 Arg Ile Asn Ala Phe Ile Glu Lys Gln Asp Phe Cys His Gly Gln Val
246 615      620      625      630
248 atg tgg cca ccc ctc agc gcc cta cag gtc aag ctt gct gag ccc ggg 2093
249 Met Trp Pro Pro Leu Ser Ala Leu Gln Val Lys Leu Ala Glu Pro Gly
250      635      640      645
252 cc 2095
254 <210> SEQ ID NO: 7
255 <211> LENGTH: 16
256 <212> TYPE: PRT
257 <213> ORGANISM: Homo sapiens
259 <400> SEQUENCE: 7
260 Lys Ser Leu Ala Glu Lys Gln Asn Leu Glu Lys Arg Lys Arg Lys Lys
261 1 5 10 15

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## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/500,841A

TIME: 12:13:40

Input Set : A:\034100-003.txt

Output Set: N:\CRF4\03042005\J500841A.raw

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264 <210> SEQ ID NO: 8
265 <211> LENGTH: 24
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: compound suppressing expression
272 <400> SEQUENCE: 8
273 gggagtgagg atgatgtagg gaag 24
275 <210> SEQ ID NO: 9
276 <211> LENGTH: 24
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: compound suppressing expression
283 <400> SEQUENCE: 9
284 atggggcaga ggaacttacg ttat 24
286 <210> SEQ ID NO: 10
287 <211> LENGTH: 6
288 <212> TYPE: PRT
289 <213> ORGANISM: Homo sapiens
291 <400> SEQUENCE: 10
292 Gly Arg Gly Lys Arg Arg
293 1 5
296 <210> SEQ ID NO: 11
297 <211> LENGTH: 6
298 <212> TYPE: PRT
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 11
302 Lys Arg Lys Arg Lys Lys
303 1 5
306 <210> SEQ ID NO: 12
307 <211> LENGTH: 6
308 <212> TYPE: PRT
309 <213> ORGANISM: Homo sapiens
311 <400> SEQUENCE: 12
312 Phe Ser Gly Gly Pro Leu
313 1 5
316 <210> SEQ ID NO: 13
317 <211> LENGTH: 5
318 <212> TYPE: PRT
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 13
322 His Phe Thr Ile Gln
323 1 5

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**VERIFICATION SUMMARY**

DATE: 03/04/2005

PATENT APPLICATION: US/10/500,841A

TIME: 12:13:41

Input Set : A:\034100-003.txt

Output Set: N:\CRF4\03042005\J500841A.raw